User's Guide

Intellex® Digital Video Management System

Version 3.2

Part Number 8200-0436-9900 A0

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Rack Mounting

Consult with the supplier of your equipment rack for adequate rack mounting means, with proper consideration for the weight of this product.

Consult with the manufacturer of your rack regarding the proper hardware and procedure of mounting this product in a safe and useable fashion

Avoid uneven loading or mechanical instability when rack-mounting units.

Make sure that units are installed to get enough air flow for safe operation.

The maximum temperature for rack-mounted units is 40° C.

Avoid uneven loading or mechanical instability when rack-mounting units.

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Important Information

Before proceeding, please read and observe all instructions and warnings contained in this manual. Retain this manual with the original bill of sale for future reference and, if necessary, warranty service.

When unpacking your Intellex unit, check for missing or damaged items. If any item is missing, or if damage is evident, DO NOT INSTALL OR OPERATE THIS PRODUCT. Contact Sensormatic or your dealer for assistance.

For your Records

Complete the following product purchase information. The factory requests this information when contacted for technical support. It is also valuable in case of loss or theft.

Purchase Date:

Serial Number:

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The Intellex System

Managing Digital Video

The Intellex is an intelligent system that combines video multiplexing, recording, and viewing of up to 16 cameras, detecting alarms/events, and notification. It can also include audio and text recording and playback.

The Intellex can simultaneously display live or playback video, with or without audio and text, host multiple remote users, archive data, and perform comprehensive video searching, all while recording multiple video, audio, and text streams.

Intellex is offered in desktop, rack mounted chassis, and RMS (RAID mass storage) platforms configured with Standard, Deluxe, or Premier packages, each containing pre-configured hardware and software features.

Basic features

- Simultaneous recording, playback, transmitting, database searching, and archiving.
- Live filters that record and trigger events.
- Digital image recording; exporting images to CD (Deluxe model) or DVD (Premier model).

Optional features

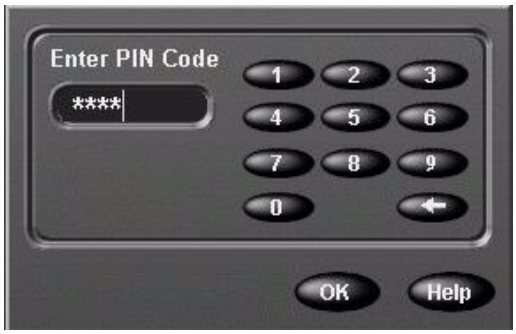
- Archive Manager module allows video archiving to, and retrieval from, a storage device attached to the network.
- Policy Manager module provides Advanced Security to define user's access privileges to Intellex resources and functions.

Getting Started

To configure security, see the Intellex Installation and Configuration Guide. The system administrator must grant privileges to access, set, or change features.

Logging In

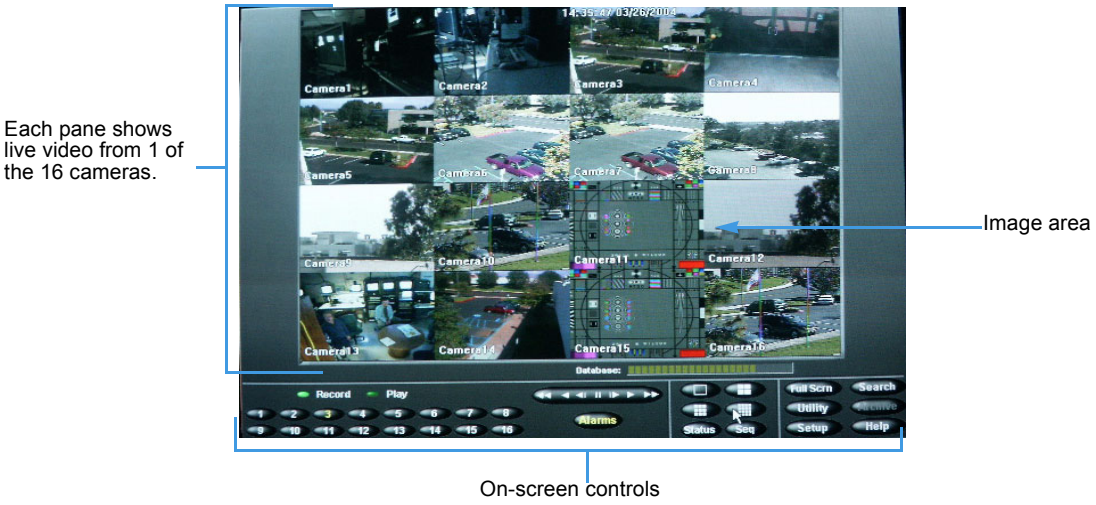
1 Using the mouse, enter the 1- to 8-character PIN (Personal Identification Number) code the system administrator assigned. Click ← to erase an entry.



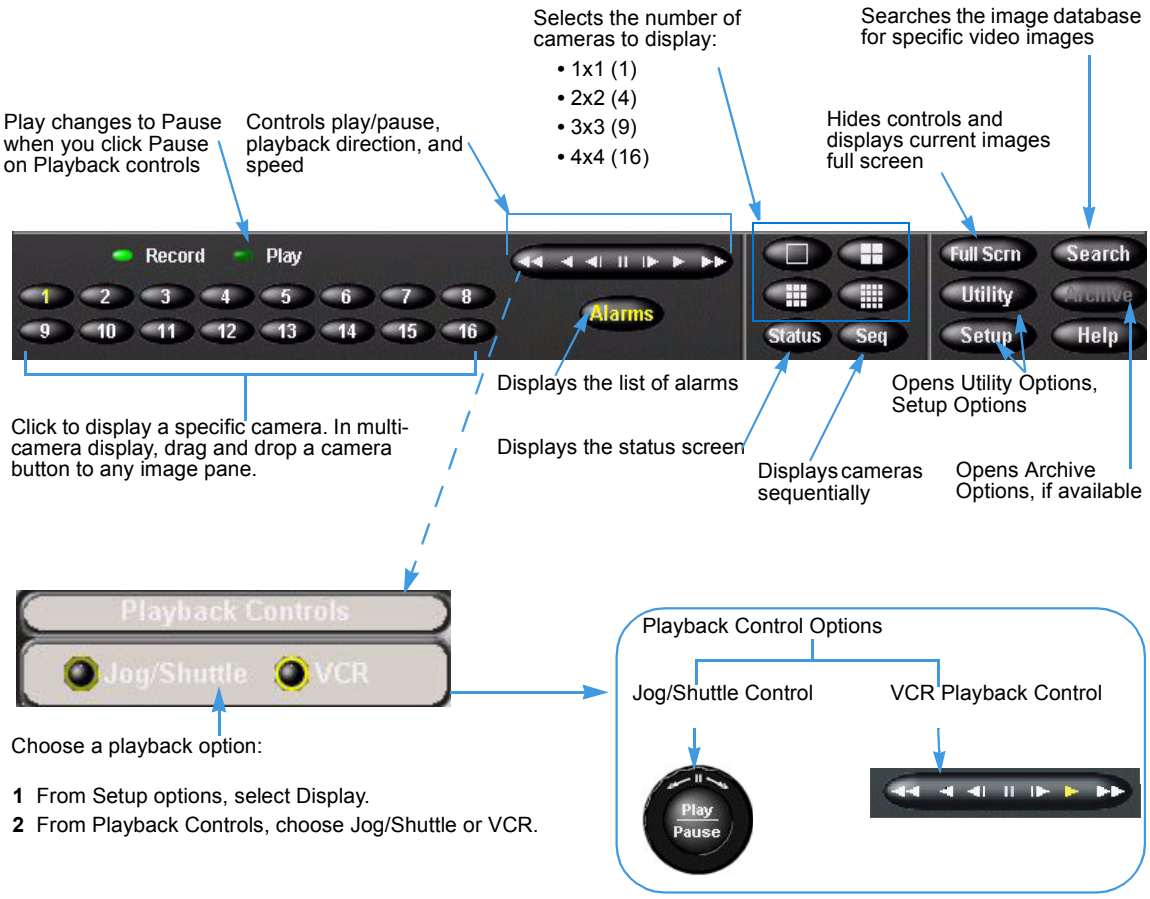
2 Click OK. The main screen appears.

Main Screen

Displays video from 1–16 cameras. Here, the screen displays live images from 4×4 (16) cameras.



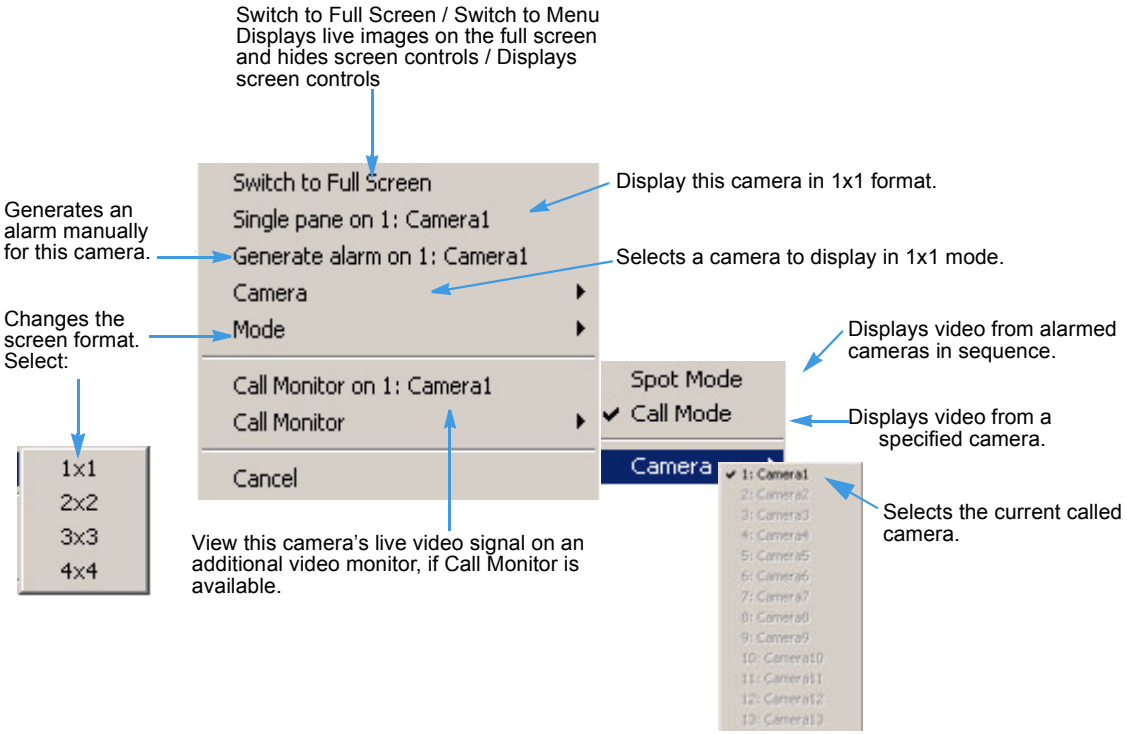
Controls



1 From Setup options, select Display.
2 From Playback Controls, choose Jog/Shuttle or VCR.

Changing the Look of the Live Display

Right-click an image. This menu appears.


Switch to Full Screen / Switch to Menu
Displays live images on the full screen and hides screen controls / Displays screen controls
Switch to Full Screen
Single pane on 1: Camera1
Generate alarm on 1: Camera1
Camera
Mode
Call Monitor on 1: Camera1
Call Monitor
Cancel
Display this camera in 1x1 format.
Generates an alarm manually for this camera.
Selects a camera to display in 1x1 mode.
Changes the screen format. Select:
Displays video from alarmed cameras in sequence.
Spot Mode
Call Mode
Displays video from a specified camera.
Camera
1x1
2x2
3x3
4x4
Selects the current called camera.
View this camera's live video signal on an additional video monitor, if Call Monitor is available.

Zooming in

At any time, zoom in on an area of the live image to more closely observe activity from a camera.

1 Move the cursor over the image to display it in a single pane.

2 Click to fill the entire image area with this camera image. The cursor changes to .

3 To return to the previous display mode:

- Click it again.
- Click the camera to full size.

4 Move the cursor over the image to enlarge.

5 Click and drag to define the area to enlarge.

Utility Options

From the main screen, click Utility.

Restarts the recording after the image database is filled (linear mode).

Generates an alarm event manually for one or more cameras.

Erases a CD-RW to re-use it for exporting files.

Shuts down the system.

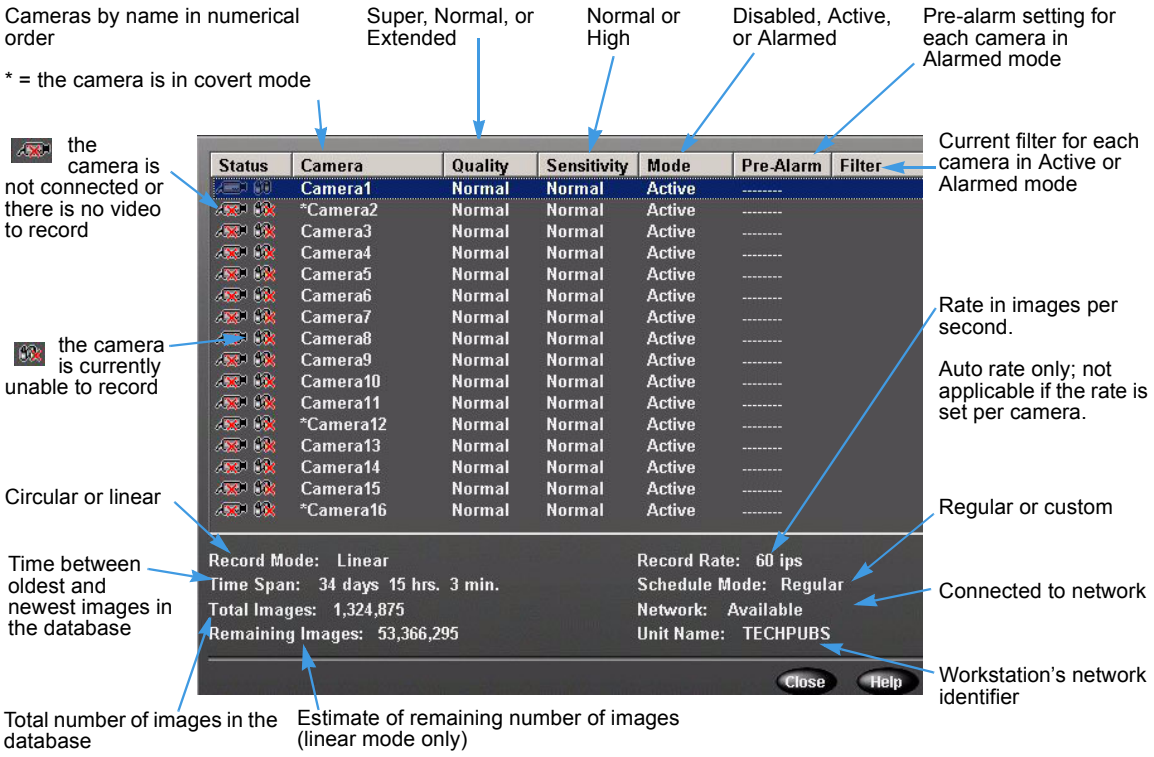
Displays a user's activities. See page 30.

Clears alarm messages manually from the live display if Latch Messages is enabled.

Exits to Windows. See page 31.

Checking Camera Status

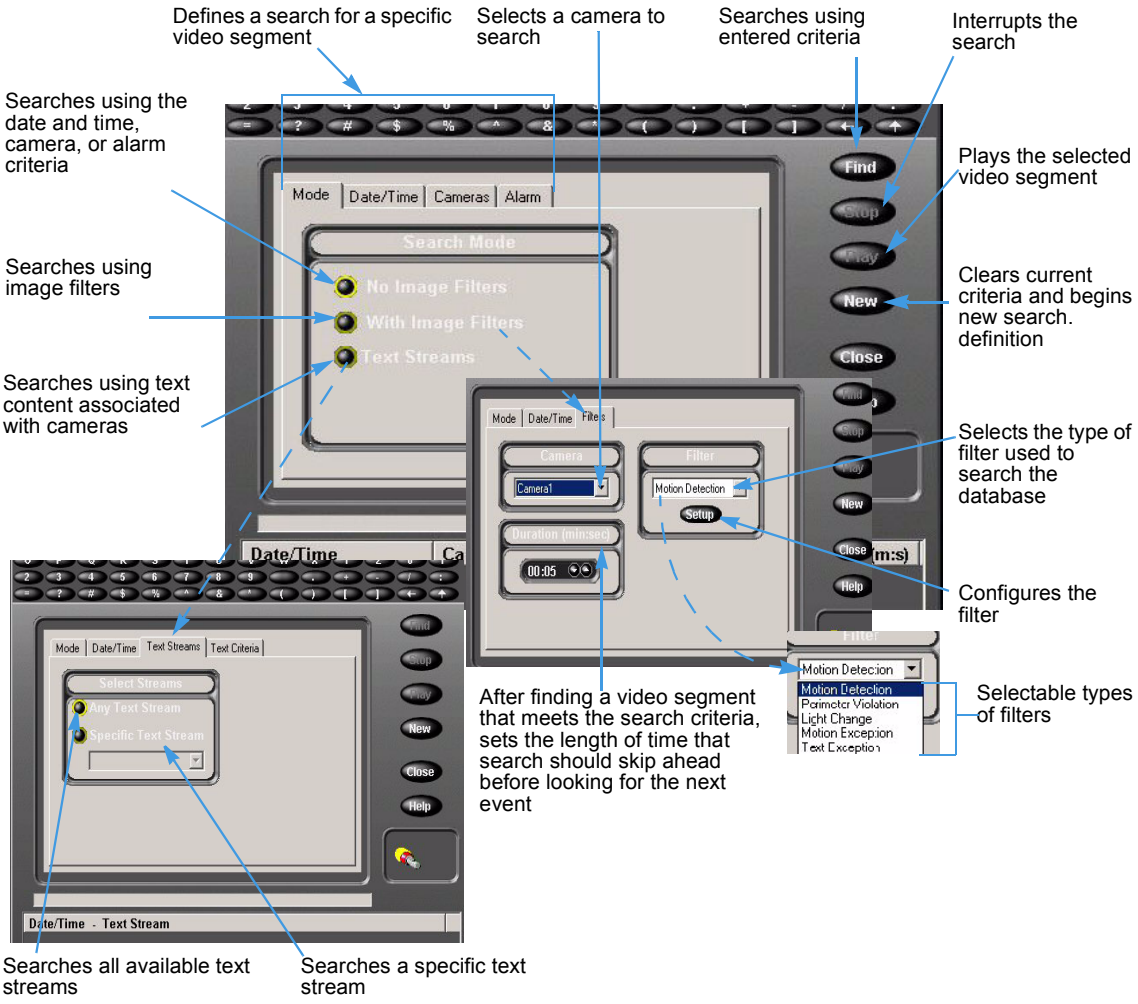
From the main screen, click Status.


Cameras by name in numerical order
* = the camera is in covert mode
Super, Normal, or Extended
Normal or High
Disabled, Active, or Alarmed
Pre-alarm setting for each camera in Alarmed mode
the camera is not connected or there is no video to record
the camera is currently unable to record
Current filter for each camera in Active or Alarmed mode
Rate in images per second.
Auto rate only; not applicable if the rate is set per camera.
Circular or linear
Regular or custom
Time between oldest and newest images in the database
Connected to network
Workstation's network identifier
Total number of images in the database
Estimate of remaining number of images (linear mode only)
Status
Camera
Quality
Sensitivity
Mode
Pre-Alarm
Filter
Camera1 Normal Normal Active --------
*Camera2 Normal Normal Active --------
Camera3 Normal Normal Active --------
Camera4 Normal Normal Active --------
Camera5 Normal Normal Active --------
Camera6 Normal Normal Active --------
Camera7 Normal Normal Active --------
Camera8 Normal Normal Active --------
Camera9 Normal Normal Active --------
Camera10 Normal Normal Active --------
Camera11 Normal Normal Active --------
*Camera12 Normal Normal Active --------
Camera13 Normal Normal Active --------
Camera14 Normal Normal Active --------
Camera15 Normal Normal Active --------
*Camera16 Normal Normal Active --------
Record Mode: Linear
Time Span: 34 days 15 hrs. 3 min.
Total Images: 1,324,875
Remaining Images: 53,366,295
Record Rate: 60 ips
Schedule Mode: Regular
Network: Available
Unit Name: TECHPUBS
Close
Help

Finding Video Segments

Find video segments based on Date and Time, Camera, Alarm, or Text criteria. See page 19.

From the main screen, click Search. The Search Mode screen appears.



Viewing Live Video

Start Camera Sequencing

1 From the main screen, select a mode for the video display.

2 On the control tool bar, click Seq.

Display Mode	Stationary Live Images	Sequencing Images
Single	None.	Single pane displays the sequencing cameras.
2×2	Panes 1–3 display stationary live images from cameras 1–3.	Pane 4 sequences through live images from cameras 4–16.
3×3	Panes 1–8 display stationary live images from cameras 1–8.	Pane 9 sequences through lives images from cameras 9–16.
4×4	Panes 1–16 display stationary live images from cameras 1–16.	None.

Note

The example above illustrates basic mapping from cameras to panes. You can map cameras to different panes (example: camera 1 to pane 16), and map the same camera to multiple panes (example: camera 1 to all 16 panes). The sequencing pane sequences through all cameras not currently displaying in a stationary pane.

Stop Camera Sequencing

- On the control toolbar, click Seq. Sequencing stops and cameras display in the previous stationary display mode.
- Click any mode button. Cameras display in an appropriate display mode.
- Click any camera button. The selected camera displays in single-pane display mode.

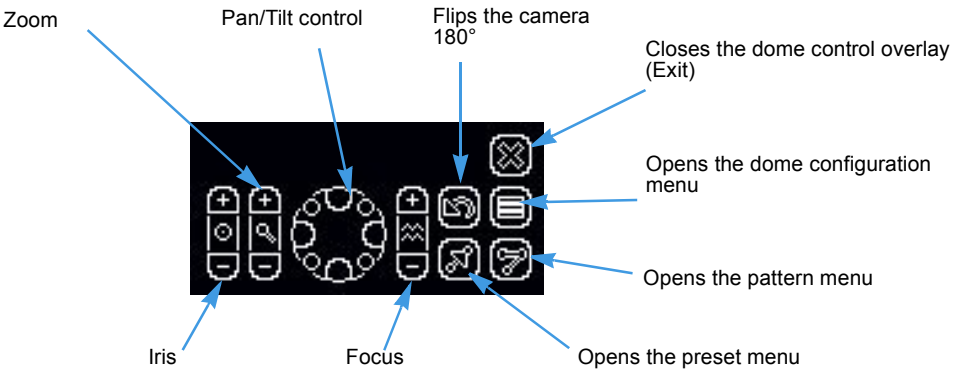
Controlling a Dome Camera

The dome symbol appears with video from a camera with dome control.

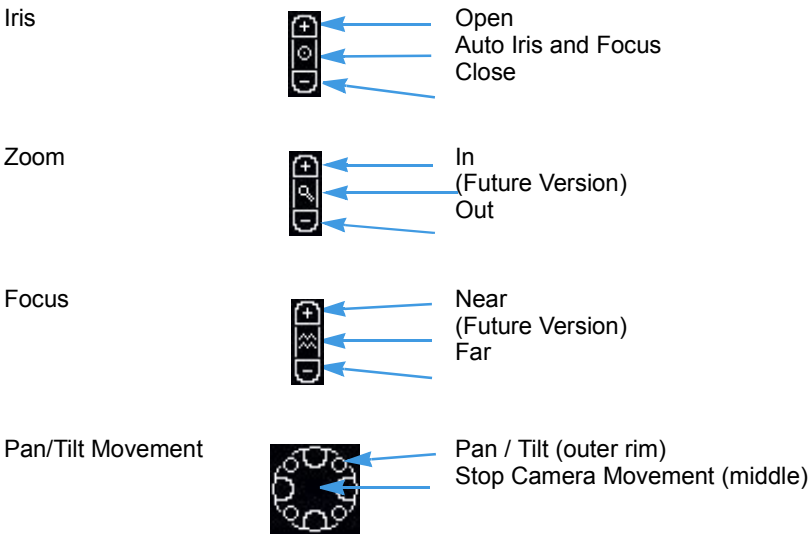
Note

If another user is operating the dome, you may not be able to control it.

- Click in the camera's pane.
- Click the control item on the overlay.



Center buttons allow automatic control: auto iris, auto zoom, and auto focus. The center of the Pan/Tilt Control stops camera movement.

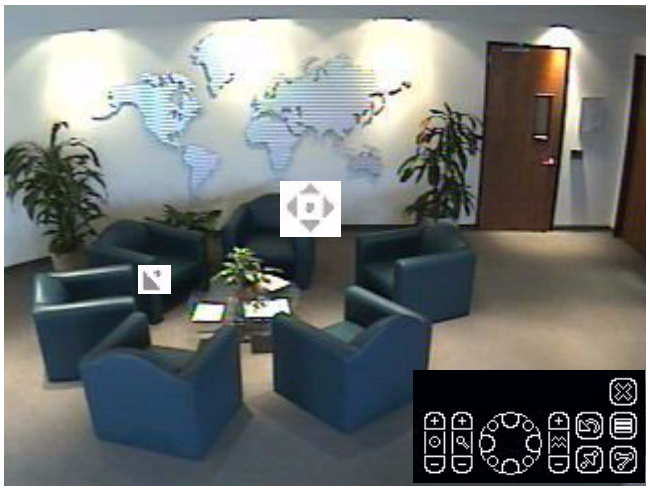


These camera handlers enable access to these dome configuration menus:

- AD168/MP48
- AD1024 Matrix
- VM96RTT
- RS422 Dome
- VM16/ADTT16
- VM16E/ADTT16E
- Pelco Matrix Switch
- USB CCTV

Quick Camera Controls

Start a camera control session to open the quick camera controls.



Controlling the Pan-Tilt Control via Mouse

1. Float the cursor over the center of the video pane. The Cursor Origin Mark appears.
2. Click and drag the cursor to set the direction and speed, then release.
   - The camera's movement speed increases proportionally with the arrow's distance from the cursor origin mark.
   - The camera's direction is relative to cursor origin mark.

Zoom via Mouse Scroll Wheel

- Point the camera at a target.
- Scroll the mouse wheel forward (zoom in) and backwards (zoom out).

Pattern and Preset Camera Controls

Note

Preset and Pattern appear only if they are set up for the selected camera. Use Intellex, Network Client, or a Touch Tracker to program presets and patterns.

Preset and Pattern enable dome control via camera scan modes. They function in the overlay for cameras that use the VM16, VM16E, USB-Sensornet, or VM96RTT camera handlers. USB-Sensornet and VM16E camera handlers let you program presets and patterns for specific dome cameras.

A Preset is a pre-positioned camera scene that you program for cameras installed with pan/tilt and motorized lens capability. A Pattern is a sequence of pan, tilt, zoom, focus and iris movements from a single, programmable dome. The dome learns these movements during programming for later execution. You can run preprogrammed presets and patterns and define presets and patterns without a Touch Tracker.

Selecting a Pattern

1. Click to open the Primary Camera Control menu.
2. Click Pattern for the pattern menu:

3. Select a pattern number.
4. Click to run the pattern.
5. Click Exit to close the Pattern menu.
6. Click to close the Primary Camera Control menu.

Defining a Pattern

1. Click to open the Primary Camera Control.
2. Position the camera for the pattern's start position.
3. Click and select an index for pattern.
4. Click Define Pattern. The Pattern Definition Menu appears.

It resembles the Primary Camera Control menu, except for Start and Stop.

5. Click Start to begin programming the pattern. Use any displayed controls to define the pattern's behavior.
6. To end the pattern, click Stop. The Replace Pattern message appears.
7. To keep the new pattern, click Yes.
8. Click to close the pattern's definition menu.
9. To test the new pattern, select the pattern number and click.
10. Click to close the Pattern menu.
11. Click to close the Primary Camera Control menu.

Selecting a Preset

1. Click to open the Primary Camera Control menu.
2. Click Preset to display the preset menu.

3. Select a preset number.
4. Click to move the camera to the preset position.
5. Click to close the Preset menu.
6. Click to close the Primary Camera Control menu.

Defining a Preset

1. Click to open the Primary Camera Control menu.
2. Position the camera for your preset.
3. Click to display the preset menu.
4. Select a preset number.
5. Click Define Preset to define a preset at this index.
6. When the Replace Preset? message appears, click Yes to program the preset.

The number of available presets is device-dependent.

Configuring a Dome Camera

Cameras using the VM16, VM16E, USB, and VM96 camera handlers can access the dome configuration menu (see the Intellex Installation and Configuration Guide). Information appearing in the menu depends on the dome camera.

1. Select the camera. Click .
2. Click Configuration Menu

   For Pan, Tilt, Focus, and Zoom primary camera controls, see page 9.
3. Navigate to items in the menu using Pan/Tilt . Select the items using Focus . Use Zoom to modify the values.
4. Accept or reject the modified values.
5. Repeat steps 3 and 4 until the camera is configured.
6. Close the Dome Configuration Menu.

Exporting Video

1. Insert blank CD or DVD media into the drive.
2. From the control bar, click Play to begin playback.
3. Move the slider to the location where video clip begins.

4. Click to define the beginning of a video clip.
5. Move the slider to the right to select the length of the video clip.
6. Click to define end of video clip.
7. Click Export. A screen appears with exported video clips.
8. Highlight the clip to export.

Select	Name	Start	End
☑	Clip 1	5/11/2004, 15:42:56	5/12/2004, 18:45:37
☑	Clip 2	5/11/2004, 11:05:22	5/11/2004, 11:05:25
☑	Clip 3	5/17/2004, 10:57:38	5/17/2004, 10:57:39
☑	Clip 4	5/17/2004, 10:59:05	5/17/2004, 10:59:06
☑	Clip 5	5/11/2004, 14:37:18	5/11/2004, 14:37:20
☑	Clip 6	5/11/2004, 14:37:37	5/11/2004, 14:37:37
☑	Clip 7	5/11/2004, 14:37:41	5/11/2004, 14:37:43

9 Click Edit to name the clip.

10 Enter a name. Click Update.

11 (Optional) click Play (default) or Pause to play or pause the video clip.

12 Check the Select box of any additional clips to include in the export.

13 Click Export to export to CD or DVD.

14 The Export Directory dialog appears. Click Include player application on export media to include the Intellex Player.

15 Click Export to CD-R(W) to write the selected video clips to the CD or DVD.

16 Click Export. The export begins.

Managing Alarms

Generating Alarms

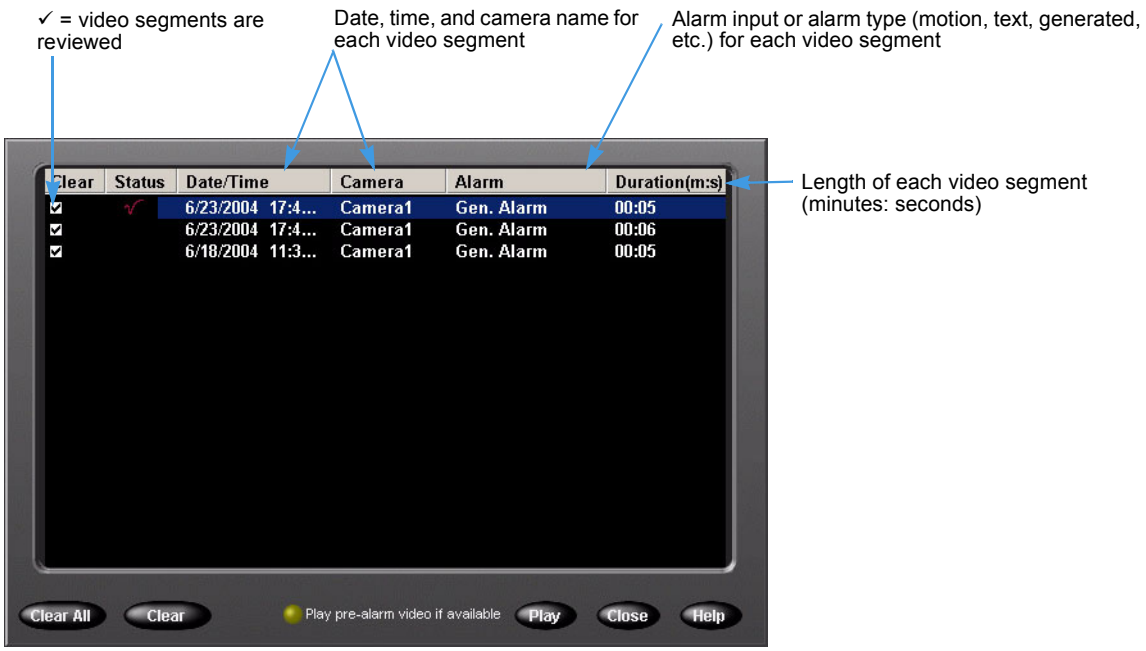
1 Move the cursor over the camera image where you want to generate an alarm.

2 Right-click. The Image Area menu appears.

3 Select Generate Alarm. The unit generates an alarm for the selected camera and processes it according to your alarm settings.

Reviewing Alarms

1 From the control bar, click Alarms. The alarm review screen appears.



2 Click Clear to clear all checked alarms, or Clear All to clear entire list of alarms.

3 Click Play to play back a video segment containing a recorded alarm.

4 Click Play pre-alarm video if available to play alarm segments starting at the pre-alarm time, if any.

Playing Back Video Clips

1 Click the jog shuttle control or a VCR button to open playback mode.

2 Click a button to select a camera (its number) or cameras (1x1, 2x2, 3x3, 4x4).

3 Drag and drop the selected camera buttons to multi-screen panes.

4 Use the slider to approximate the player's position.

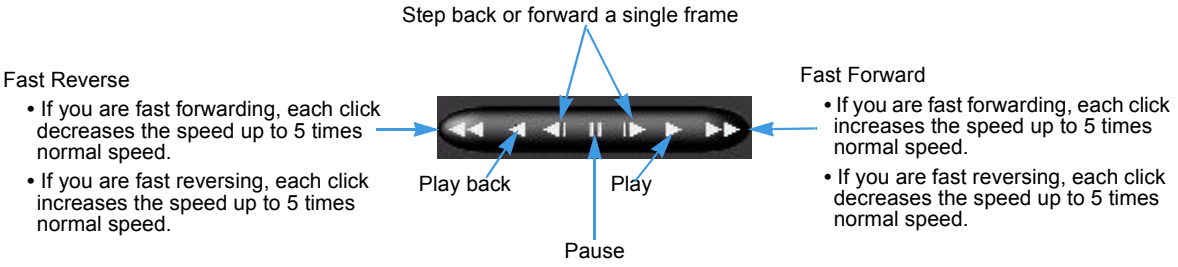
5 Click the jog shuttle control or the VCR's middle button to pause playback mode.

6 Click Close to exit playback mode.

Slider Control

Play, pause, or move through the video stream using the slider and Play/Pause button.

VCR Control


Step back or forward a single frame
Fast Reverse
• If you are fast forwarding, each click decreases the speed up to 5 times normal speed.
• If you are fast reversing, each click increases the speed up to 5 times normal speed.
Fast Forward
• If you are fast forwarding, each click increases the speed up to 5 times normal speed.
• If you are fast reversing, each click decreases the speed up to 5 times normal speed.
Play back
Play
Pause

Jog Shuttle Control

1. Click once to play back video.

2. Click again to pause video.
3. When playing, click and drag the arrow clockwise to increase playback speed or counterclockwise to reduce or reverse playback speed. Click and drag the arrow horizontally to the left or right to achieve the same results.

4. Continue dragging clockwise or counterclockwise to increase or decrease speed from 1–5 times normal speed. The speed increase or decrease appears.
5. When paused, click and drag the arrow clockwise to forward playback in slow motion or counterclockwise to reverse playback in slow motion.

6. Continue dragging clockwise or counterclockwise to increase or decrease speed from 1–5 times slow motion speed. The speed increase or decrease appears.

Archiving Video

Archive video to tape, to a network, or a combination.The new Network Archive functionality allows automatic archiving that you can store off-site.

Note

The Archive button is enabled only when a tape drive is connected to the Intellex unit. For the option of network archiving only, the Archive button is disabled.

Note

See page 13 for using CDs and DVDs.

Archiving to Tape

You can back up the image database while recording or after stopping the recording.

1. From the main screen, select Archive. The Archive Options screen appears.
2. Click Back up images to tape to archive in the background. The Image Database Backup screen appears.

   Note

   Back up images to tape is disabled during combined tape/network archiving.

While Recording

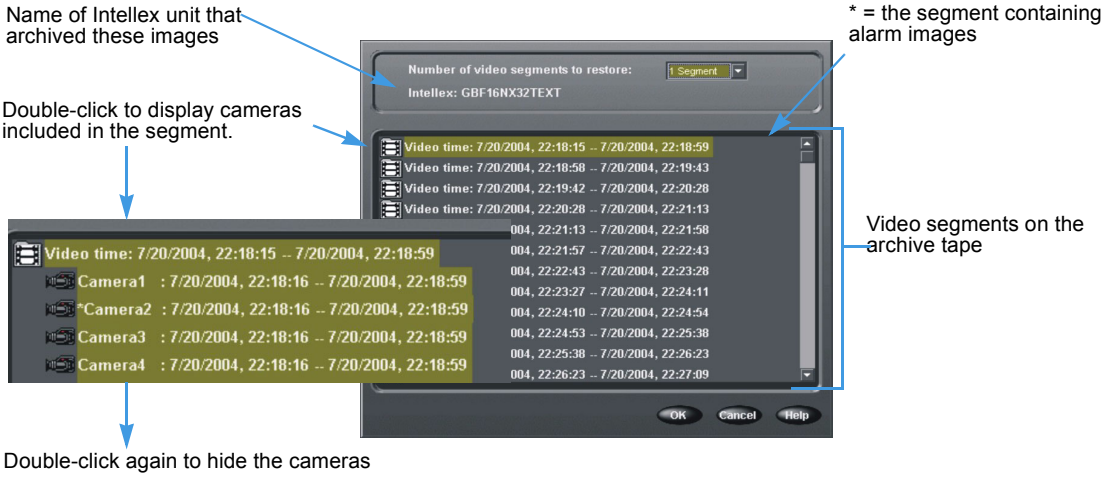
1. Click Back up while recording to archive in the background.
2. Insert a backup tape.
3. After the tape drive's lights stop blinking, click Next. Select 1:
   - Append to the end of the tape to continue archiving after the last saved image on the tape.
   - Overwrite the images on the tape
   - Use a different tape to eject the tape and start over by inserting another tape.

After Stopping Recording

1. Click Stop recording and back up now to stop recording and back up immediately, in the foreground. The unit interrupts normal operation and does not record any images during the backup.
2. Continue as in steps 2 and 3 above.

Restoring Images from Tape

1 Click Restore images from tape to copy images from a backup tape to the system.



2 Select a video segment to restore.

3 Press ▼ to select the number of segments to restore.

4 Click OK. Follow the prompts.

Playing Restored Images

1 Click Play restored images to review images that were copied from a backup tape to the system.

2 Follow the prompts.

Resetting Archive Flags

1 Click Reset archive flags to make all files in the database available for archiving.

2 Follow the prompts.

Note

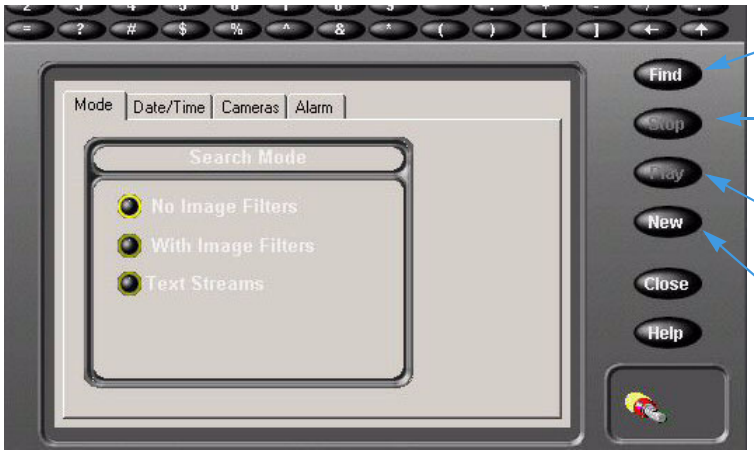
Reset archive flags is disabled during combined tape/network archiving.

To configure security, see the Intellex Installation and Configuration Guide. The system administrator must grant privileges to access, set, or change features.

Searching for Video Segments

Use criteria including Date/Time, Filters, and Text to search the image database and text streams.

From the main screen, click Search.



Creates a search using your criteria. Any matches appear in a list.

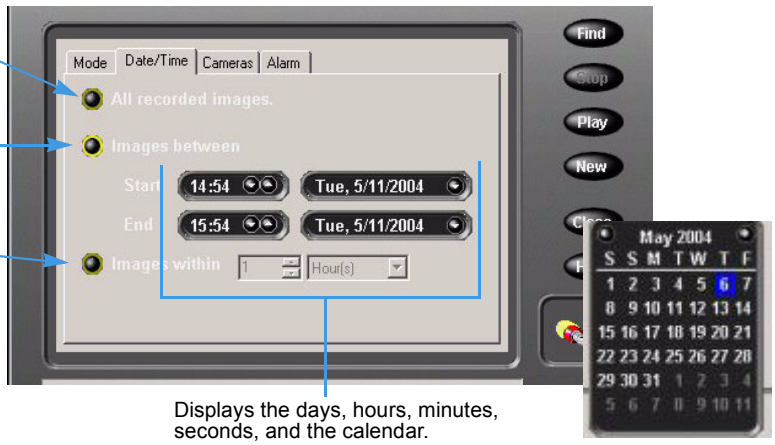
Interrupts the search. The list includes segments found before the interruption.

Plays a segment that is highlighted in the list of results.

Clears your criteria.

Searching by Date/Time

Click the Date/Time tab to search within a specific period.



Includes all segments regardless of the time recorded.

Includes only segments recorded during a time and date range.

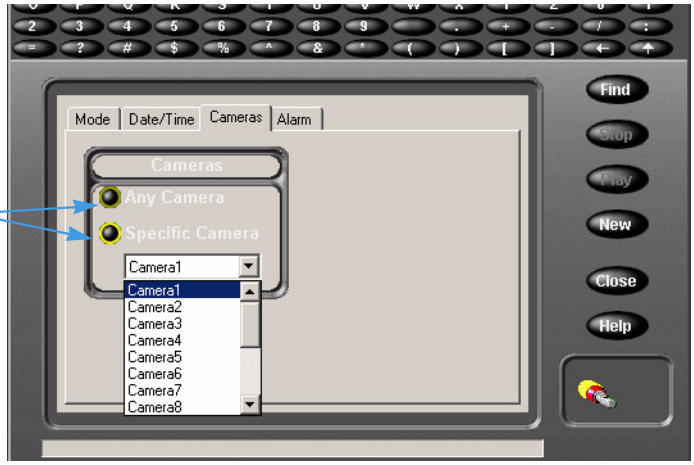
Includes recently recorded segments. Specify a time range from 1 second–60 days.

Displays the days, hours, minutes, seconds, and the calendar.

Searching by Camera

Click Cameras to search for segments by camera.

Include segments from all cameras or a specific camera in the search.



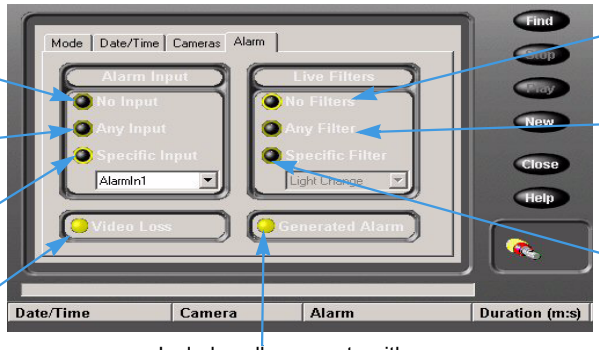
Searching by Alarms

Click Alarms to search for segments based on alarm information.

Includes segments regardless of alarm input.

Includes any segments with an alarm input.

Includes segments with a specific alarm input.



Includes segments regardless of filter criteria.

Includes segments that were recorded because a filter was triggered.

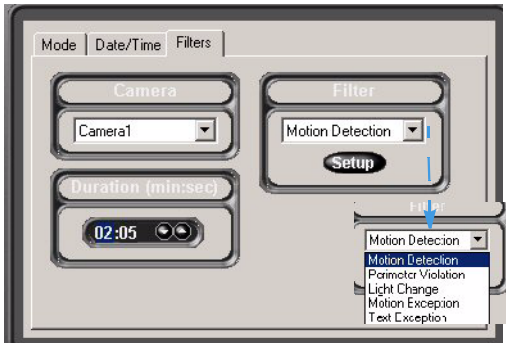
Includes any segments that were recorded because a specific filter was triggered.

Includes all video loss segments.

Includes all segments with generated alarms.

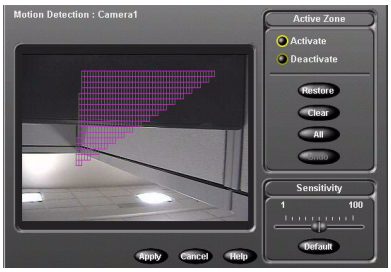
Searching Using Filters

1. From the Search Mode page, click With Image Filters.
2. Click the Filters tab.
3. Select a camera.
4. Set the length of time that search should skip ahead after a qualified video segment is found.
5. Select the type of filter to search the database.
6. Click Setup to configure the filter.



7 To define the filter's target area:

- Move the cursor over the image area.
- Draw the boundaries by clicking and moving the mouse to each corner of the target area and clicking again.
- After enclosing the target area, click again to fill shape.



8 Set the sensitivity level.

Note

Sensitivity is based on the size of the highlighted area. At higher sensitivity settings, smaller changes trigger the filter. At lower settings, larger changes are required to trigger the filter. Therefore, a large area may require a higher sensitivity for a small amount of movement.

9 Click Apply.

Searching Using Text Associated with Cameras

1 From the Search Mode page, click Text Streams. The search dialog displays criteria tabs: Date/Time**,** Text Streams, and Text Criteria.

2 Select String Search or Advanced Search (does not apply to Intellex IP). The displayed tabs depend on the text search selected. Advanced Search adds the Receipt Definitions tab.

Searching by String

You can search for any string associated with the camera or instrument.

1 Select String Search.

2 Select the Date/Time tab.

3 (Optional) Enter Date/Time criteria.

4 Select the Text Streams tab to enter text stream criteria. You can:

- Select Any Text Stream to search all text streams on the Intellex unit
- Select Specific Text Stream. Select a stream from the list.

5 To define your search, click Text Criteria.

Advanced Searches

1 Select Advanced Search.

2 Select the Date/Time tab.

3 Enter Date/Time criteria (optional).

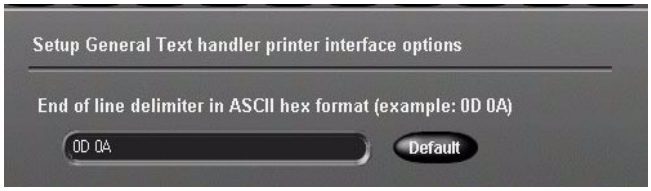
4 Select Text Criteria (optional). This screen displays text exceptions.

Text Options

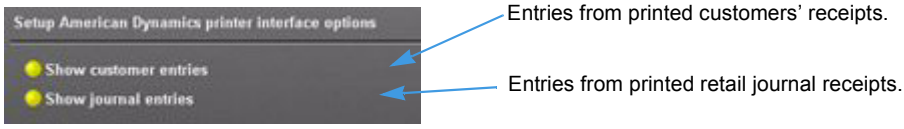
Configure the Intellex unit to record text streams associated with cameras.

Adding, Editing, or Deleting a Text Stream

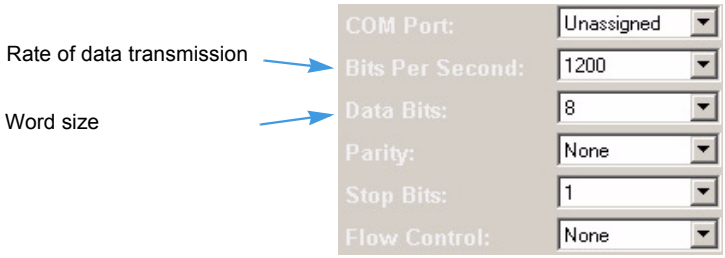
1. From the main screen, click Setup. The Setup Options screen appears.
2. Click Text. The Text setup screen appears.
3. Click Add or Edit to define or modify a text stream. Click Delete to eliminate a text stream. The Text Source screen appears.
4. Enter a name for text stream.
5. Click the down arrow to access handler types.
6. Highlight a text formatter.
7. Click Setup to access a printer interface.
8. For the General Text handler, enter an end-of-line delimiter to display text lines from a receipt.
   - Click Default to reset the box definition to default 0D 0A. Click OK**.**


Setup General Text handler printer interface options
End of line delimiter in ASCII hex format (example: 0D 0A)
0D 0A
Default

   - For the American Dynamics handler, select one or both options to record and display entries. Click OK.


Setup American Dynamics printer interface options
Show customer entries
Show journal entries
Entries from printed customers' receipts.
Entries from printed retail journal receipts.

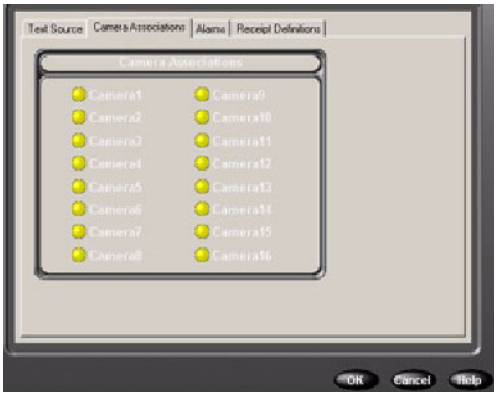
9. Select an option from each list. Defaults are shown.



Associating Text Streams with Cameras

1. From the Text setup screen, select the Camera Associations tab.

2 Click one or more cameras.



Generating Receipt Definitions

1 From the Text setup screen, select the Receipt Definitions tab.

2 Click Build Receipts to create and remove receipt definitions.

Adding, Editing, Deleting, or Importing Receipt Definitions

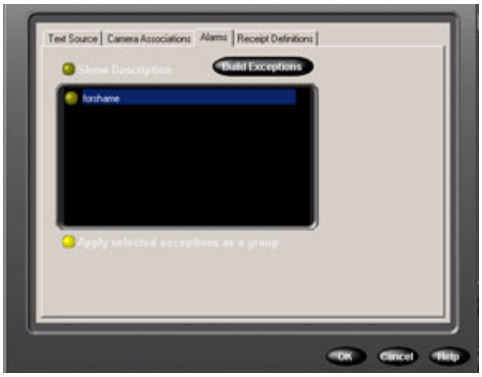
From the Receipt Definitions screen, click an option:

- Add or Edit selects or configures a receipt definition.
- Delete
- Import imports a file containing text receipt definitions.
- Export exports highlighted receipt definition entries to a specified file.

Enter a name.

From the Transaction Data pane, enter a marker.

Generating Text Alarms



1. From the Text setup screen, select the Alarms tab.
2. Click Apply selected exceptions as a group to generate an alarm for a receipt after exporting receipt definition entries to a file. These conditions must be met:
   - You selected at least one receipt definition.
   - A receipt definition marker is found in the current receipt.
   - All selected text exceptions report a match for the current receipt.

   Or deselect Apply selected exceptions as a group to generate text alarms on individual text exceptions.
3. Click Build Exceptions to generate advanced text exceptions. The Advanced Text Exceptions screen appears.

Using Advanced Text Exceptions

1. From the Advanced Text Exceptions screen, click Add or Edit to create or modify a text exception.
2. Click Delete (optional).
3. Click Import to import a specific file containing text exceptions (optional).
4. Click Export to export highlighted exceptions to a specified file (optional).
5. Enter an exception name.
6. Enter a match or cut and paste from the Transaction Data pane.
7. From the Search Direction box, select Forward (default) or Backward.
8. In the Jump N Results box, enter the number of words to skip, after a match is found, to find the associated value. Default = 0.
9. From the Jump N Results box, select To last entry of line to skip a variable number of entries between the last match and the text value in a receipt.
10. From the And Value is box, select an option to return these results:

Option	Results
Less Than	< 1
Greater Than	> 1
Equal To	= 1
Between	Values between 1–2
Found	Any results found
A String	A series of characters in value 1

Advanced Searching with Motion Exception

This feature applies to the Premier model only.

Motion exception searches for an event or activity by position, size, direction, and speed of a moving object. Its parameters filter live video or search recorded video to find an event or activity. After applying motion exception parameters, any object meeting your criteria in the target area triggers an alarm.

- Motion exception cannot operate if the scheduled record rate is less than 7 ips.
- Motion exception requires a fixed camera or a dome in non-moving (fixed position) mode.
- You can configure one or more motion exception target areas at a time.
- Do not use Auto Rate Mode to configure recording rates when using motion exception filters for alarm generation or search. Always use Camera Selectable Rate Mode and set the minimum rate to 7.5 ips (6.25 for PAL) on cameras using motion exception filters.

Motion Exception vs. Motion Detection

Motion exception:

- Is more effective in performing what if searches.
- Performs detailed motion searches.
- Defines multiple regions of interest in various sizes.
- Specifies size, direction and speed of an object for detection.

Motion detection:

- Reacts to an image within the region of interest.
- Detects any motion that occurs.

Important differences in sensitivity:

Function	Motion Exception	Motion Detection
Reacting to images	Analyzes many images before reacting	Reacts image to image
Best location	Outdoors	Indoors
Best position of the camera	Far from the movement	Close to the movement
Alarms	Likelier to miss alarms, especially in low light	Likelier to generate false alarms, especially in low light
Finding motion while searching	Likelier to find specific motion	Likelier to find any motion
Narrowing the filter or search	Use specific tools	Use the Sensitivity adjustment
Effectiveness	Limited to specific camera views	Effective on most camera views

Neither is effective in low light.

For successful motion exception:

- A faster recording rate is better than a slower one.
- Draw one or more target areas to exclude extraneous activity.
- A target area near the center is better than one near the side.
- Do not increase the target object's size or speed unless required.
- Good quality video feeds are essential.

Standard motion detection can generate many false alarms, and important alarms listed with them. Motion exception produces fewer, more detailed alarms than motion detection.

To assess motion filter effectiveness for a single camera:

1. Loop the camera's signal to an unused input (make sure to set the termination properly).
2. Use motion detection on one input and motion exception on the other.
3. Observe the results of both methods and make changes as needed.

To perform a comprehensive search for all types of motion in recorded video, use both methods on the same camera.

Searching by Motion Exception

1. From the main screen, click Search.
2. Select With Image Filters.
3. Click the Filters tab.
4. Select a camera from the Camera menu.
5. Select Motion Exception from the Filters menu. Select a duration (optional).
6. Click Setup.

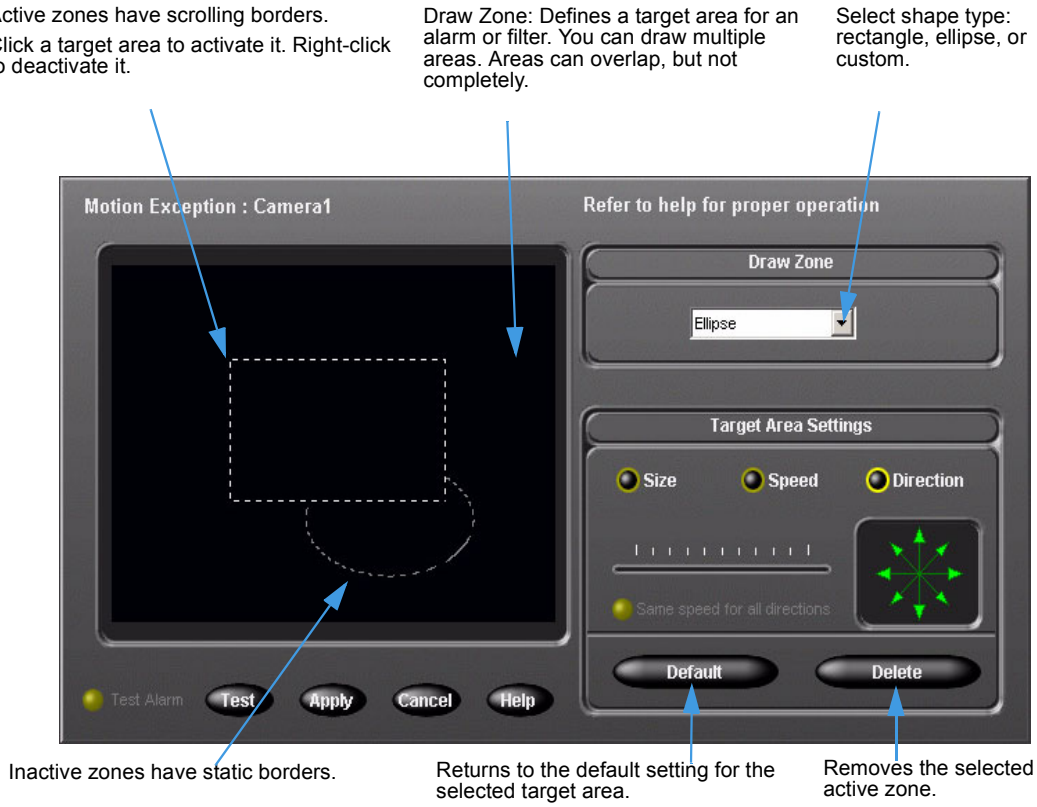
Note

Alternately, access Motion Exception from the Setup menu while viewing live video. See the Intellex Installation and Configuration Guide.

Setting Up the Target Area

1. Select the target area's shape from the draw zone list.

2 Click and drag to form the target area. Custom shapes must form an enclosed boundary.


Active zones have scrolling borders.
Click a target area to activate it. Right-click to deactivate it.
Draw Zone: Defines a target area for an alarm or filter. You can draw multiple areas. Areas can overlap, but not completely.
Select shape type: rectangle, ellipse, or custom.
Motion Exception : Camera1
Refer to help for proper operation
Draw Zone
Ellipse
Target Area Settings
Size
Speed
Direction
Same speed for all directions
Default
Delete
Test Alarm
Test
Apply
Cancel
Help
Inactive zones have static borders.
Returns to the default setting for the selected target area.
Removes the selected active zone.

3 (Optional) Configure additional target areas.

To use the default settings for size, speed and direction:

1 Draw target area(s).

2 Click Test to try motion exception filters you configured. The Test Alarm radio button blinks when an object meeting your configuration criteria moves through the target area.

3 Click Apply.

The default settings trigger an alarm for any motion in the target area.

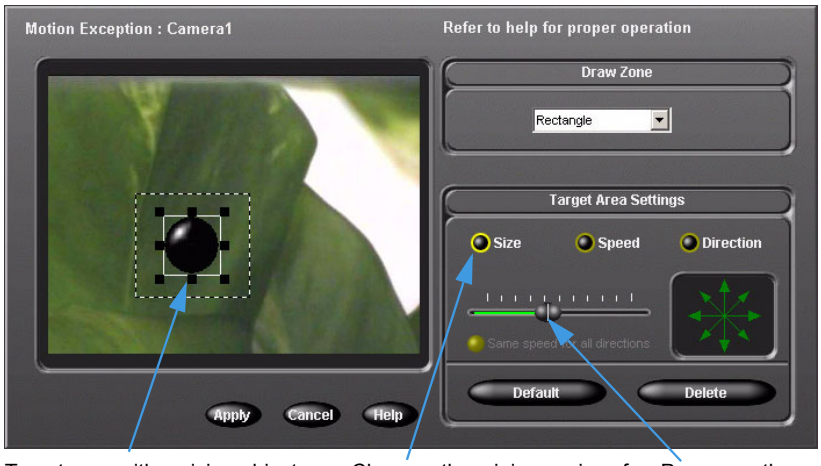
Reduce the number of objects that trigger alarms by adjusting the target area settings.

Adjusting Target Area Settings

Your camera's environment and placement can cause wide variations in recorded video. When using motion exception, configure several filters for each camera. These filters account for the size and speed of different objects, environmental variation, and unwanted object motion.

Determining Minimum Object Size

Click Size to change the default size of an object. An object larger than the selected or default size triggers the alarm.



Target area with a sizing object. Drag its handles to change the object's size and aspect ratio.

Changes the minimum size of an object that triggers an alarm.

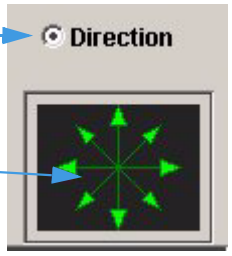
Preserves the aspect ratio.

Specifying an Object's Direction

Direction arrows are 45° apart. When you enable multiple directions, you expand the directions in which you track the object. To account for variations when searching in one direction, select more than one arrow within the directional range.

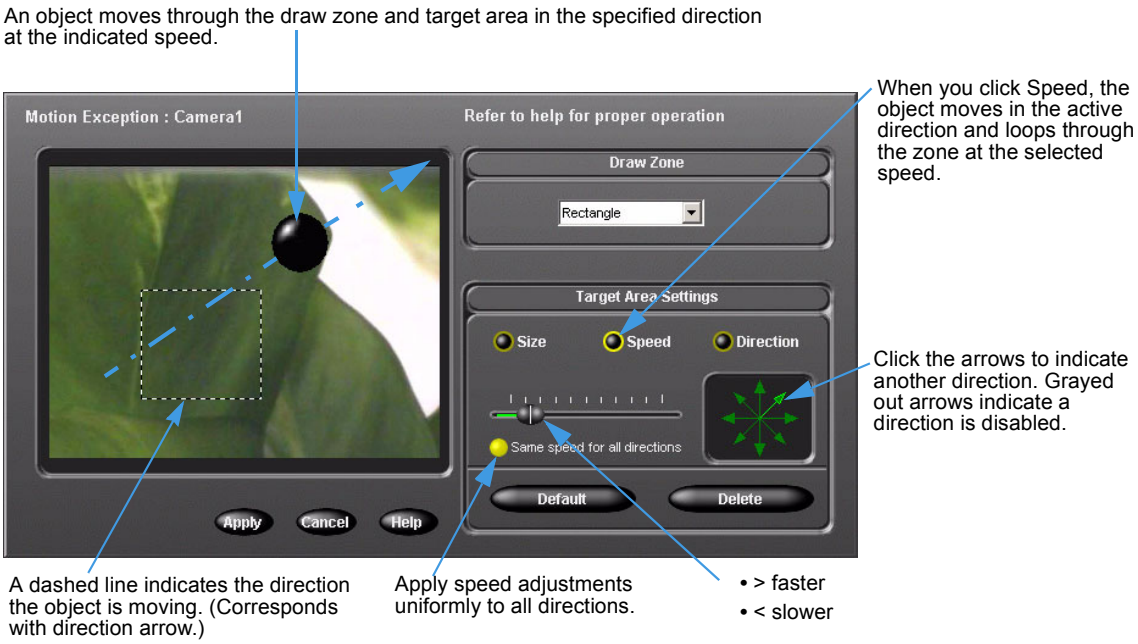
Click to activate direction arrows.

Click one or more arrows to activate (highlight) or deactivate (gray out) a direction.



Specifying an Object's Minimum Speed

Click Speed to change an object's default speed (0 = no movement). Objects moving faster than the selected speed trigger the alarm. The default direction is every direction.


An object moves through the draw zone and target area in the specified direction at the indicated speed.
When you click Speed, the object moves in the active direction and loops through the zone at the selected speed.
Click the arrows to indicate another direction. Grayed out arrows indicate a direction is disabled.
A dashed line indicates the direction the object is moving. (Corresponds with direction arrow.)
Apply speed adjustments uniformly to all directions.
• > faster
• < slower
Motion Exception : Camera1
Refer to help for proper operation
Draw Zone
Rectangle
Target Area Settings
Size
Speed
Direction
Same speed for all directions
Default
Delete
Apply
Cancel
Help

Environmental Factors

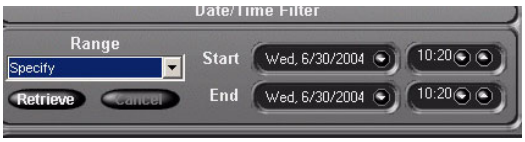
When using motion exception, consider:

Factor	Comment/Recommendation
Background motion	Select a location with no continual background motion. For example, do not place the camera facing trees moving in the wind, a high traffic roadway, a TV monitor, etc.
Lighting	Sudden lighting changes, such as turning lights on or off, may trigger unwanted alarms.
	Avoid low light and harsh shadows.
	Too little contrast between an object and its background is usually due to poor lighting.
Objects moving too fast	Because Intellex interprets changes in an object's position over time, a fast-moving object may not be tracked accurately.
Reflections	Reflections of objects in windows, mirrors, or other surfaces are interpreted as other objects. If possible, place the camera so that there are no reflective surfaces in the camera's view.

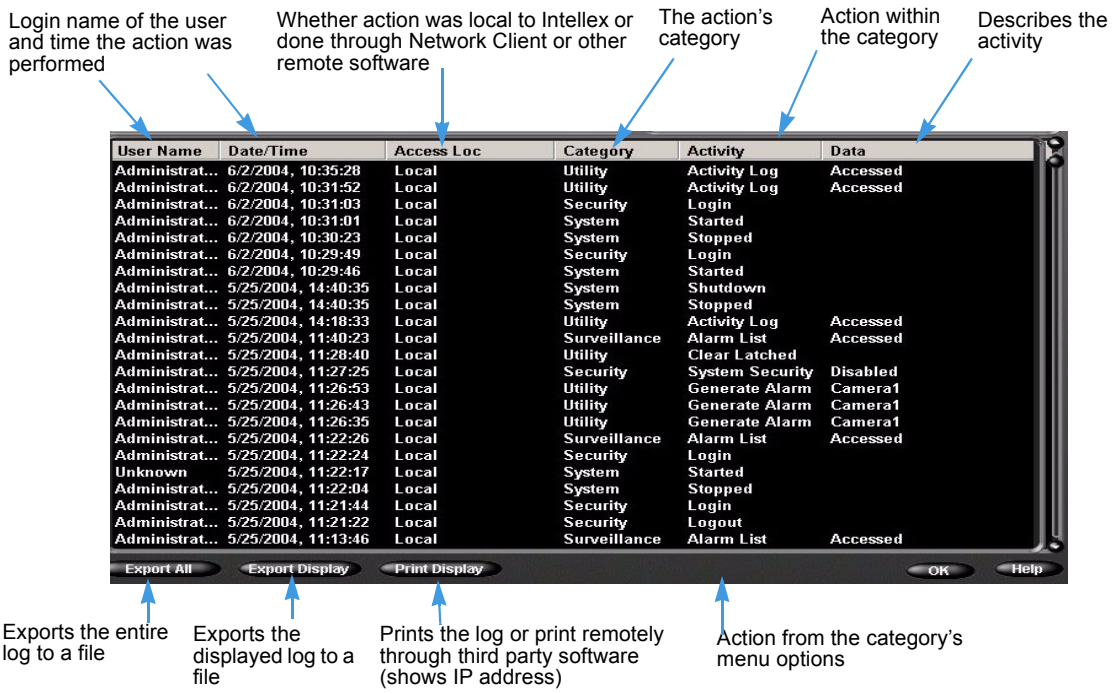
Factor	Comment/Recommendation
Occlusions and obstructions	Set up the camera such that no objects totally block (occlude) objects of interest in the camera's view. When someone walks behind something that totally blocks that person in the camera's view, Intellex predicts where the person will be next based on his speed when last seen. The more a person is blocked in the camera's field of view, the more prediction errors may occur. The Intellex can easily track a man walking behind a tree at a constant velocity, but not a man walking behind a building at a changing speed. An obstruction may partially block the camera's view; for example, a man walking behind a car may appear to be missing his lower body, and the Intellex notices that the size of the object that it was tracking has suddenly changed. When you configure alarms based on the size of an object, note that even a partial or temporary obstruction may lessen the reliability of alarms.
Camera's recording rate	If the rate drops below 7 ips, the reliability of object tracking is reduced.
Moving objects in the camera view on startup	Tracking quality is reduced until the Intellex unit can determine which elements are in the background and which are moving objects.
Camera's location	In a busy room, place the camera up high, with a 45–90° line of sight to the floor. If possible, aim the camera toward a motionless background.
Camera is too close to objects	A moving object must fit within 25% of the screen. Large objects are common indoors. Place the camera as far away as possible from the objects you are tracking.
Excessive video noise	Poor video feed or excessive signal boosting significantly reduce tracking quality.

Viewing an Activity Log

1. From the main screen, click Utility. The Utility Options screen appears.
2. Click Activity Log to view all activity a user performs on the Intellex after logging in.
3. From the Range box, select a time frame. If you select Specify, select start and end dates and times for the filter.



4. Click Retrieve to see all activity meeting your criteria. Modify the results by defining User, Category, and Activity.


Login name of the user and time the action was performed
Whether action was local to Intellex or done through Network Client or other remote software
The action's category
Action within the category
Describes the activity
User Name
Date/Time
Access Loc
Category
Activity
Data
Administrat... 6/2/2004, 10:35:28 Local Utility Activity Log Accessed
Administrat... 6/2/2004, 10:31:52 Local Utility Activity Log Accessed
Administrat... 6/2/2004, 10:31:03 Local Security Login
Administrat... 6/2/2004, 10:31:01 Local System Started
Administrat... 6/2/2004, 10:30:23 Local System Stopped
Administrat... 6/2/2004, 10:29:49 Local Security Login
Administrat... 6/2/2004, 10:29:46 Local System Started
Administrat... 5/25/2004, 14:40:35 Local System Shutdown
Administrat... 5/25/2004, 14:40:35 Local System Stopped
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Administrat... 5/25/2004, 11:40:23 Local Surveillance Alarm List Accessed
Administrat... 5/25/2004, 11:28:40 Local Utility Clear Latched
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Administrat... 5/25/2004, 11:13:46 Local Surveillance Alarm List Accessed
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Export Display
Print Display
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Help
Exports the entire log to a file
Exports the displayed log to a file
Prints the log or print remotely through third party software (shows IP address)
Action from the category's menu options

Exiting Intellex

Since Intellex uses the Windows operating system to configure the regional, mouse, time zone, network, printer, and language settings, you must exit to Windows.

Note

Windows screens appear in English, regardless of the language version of Intellex. Consult Microsoft Windows Installation instructions for setting the operating system to another language.

Exiting to the system is a protected feature. You must have the Exit to System privilege to access it.

Exiting to Windows

1. From the main screen, click Utility. The Utility Options screen appears.
2. Click Exit. A confirmation message appears.
3. Click Yes to exit to Windows. The Enter PIN Code screen appears.
4. Enter the system exit code. (Contact your dealer or system administrator for this code.)
5. Click OK to exit to the Windows operating system.

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